Microbial and biochemical properties of wet pig feed on Swedish farms

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Unstable and varying microbiota and biochemical properties on the farms.

Wet pig feed is potentially a high quality feed with high nutrient availability, high palatability, good hygienic quality and probiotic effects.

However, there are reports of unstable properties of wet feed on farms and problems with growth of undesired microorganisms.

Aim

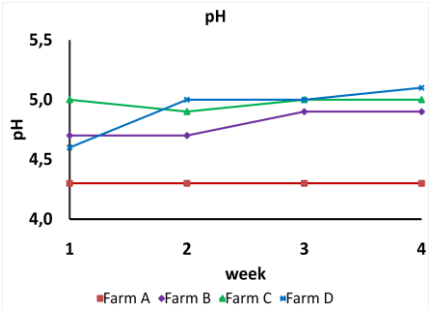
Study the stability and diversity of the microbiota and biochemical properties of wet pig feed on Swedish farms.

Methods

Standard grower wet feeds were sampled during four subsequent weeks on four representative pig farms.

Results

- Yeast and lactic acid bacteria differed in quantity on the farms and over time ($p<0.001$)
- Enterobacteriacae were only present where pH was above 4.5.
- Acetic acid levels were low (<3.8 g/l)



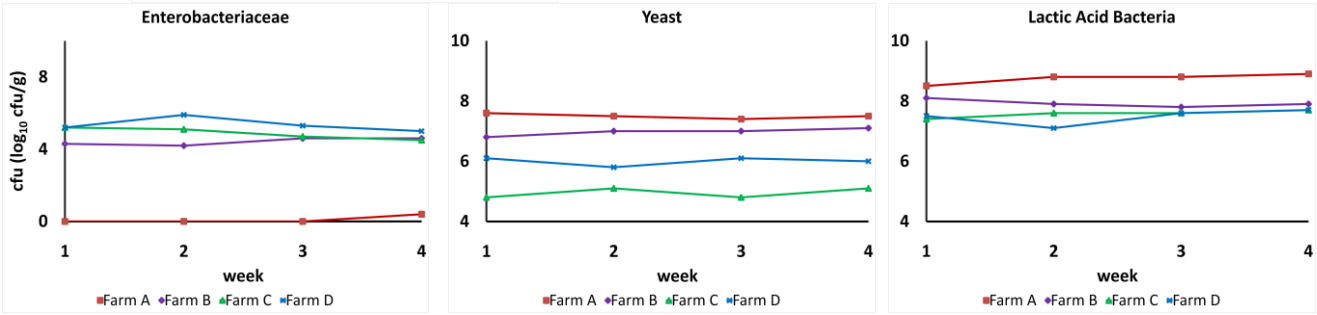


Fig 1. Microbial counts (log_{10} cfu g^{-1}) and pH in wet pig feed from farms (A,B,C,D) during 4 weeks presented as Least Square-means